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They're Not Just Big Kids: A Service Delivery Model for Young Adults with Cleft Lip/Palate

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They're Not Just Big Kids: A Service Delivery Model for Young Adults with Cleft Lip/Palate



Financial and Nonfinancial Disclosures by Abstract

1.^ A ONE-DAY LISTENER TRAINING WORKSHOP: PRESENTED BY THE AMERICLEFT SPEECH GROUP

Authors: **Kathy Chapman**, Cindy Dobbelsteyn, Judith Trost-Cardamone, Kristina Wilson, **Adriane Baylis**, **Kelly Cordero**, **Angela Dixon**, **Anna Thurmes**

Disclosures: *Kelly Cordero has disclosed no relevant nonfinancial relationships and the following financial relationship: Full-time Bilingual Speech-Language Pathologist Rehabilitation Program Coordinator Barrow Cleft and Craniofacial Center. Angela Dixon has disclosed no relevant nonfinancial relationships and the following financial relationship: Salaried speech pathologist at Riley Hospital for Children in Indianapolis, IN. Anna Thurmes has disclosed no relevant nonfinancial relationships and the following financial relationship: University of Minnesota. Adriane Baylis has disclosed no relevant financial relationships and the following nonfinancial relationship: Editor, ASHA SIG 5 Perspectives Coordinating Committee, ASHA SIG 5 ACPA Education Committee and Program Committee. The other presenters have disclosed no relevant financial or nonfinancial relationships.*

2. A STAGED RECONSTRUCTIVE APPROACH FOR CLEFT LIP AND PALATE: DOES IT REALLY MATTER?

Authors: **Ghali Ghali**, **Ramon Ruiz**

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

3. DEFINITIVE ORTHODONTIC TREATMENT IN THE PATIENT WITH A FACIAL CLEFT

Authors: **Ross Long, Jr.**

Disclosures: *The presenter has disclosed no relevant financial or nonfinancial relationships.*

4. CLEFT ORTHOGNATHIC SURGERY: AN OVERVIEW OF THE STATE OF THE ART

Authors: **Sean Edwards**

Disclosures: *The presenter has disclosed no relevant financial or nonfinancial relationships.*

5. SPEECH OUTCOMES AND TREATMENT OPTIONS IN ADOLESCENCE AND ADULTHOOD

Authors: **Sara Kinter**

Disclosures: *The presenter has disclosed no relevant financial or nonfinancial relationships.*

6. SURGICAL OPTIONS FOR VPI MANAGEMENT IN THE ADOLESCENT AND ADULT PATIENT

Authors: **Sherard Tatum**

***Disclosures:** The presenter has disclosed no relevant financial or nonfinancial relationships.*

7. CLEFT LIP REVISION

Authors: **Michael Lypka**

***Disclosures:** The presenter has disclosed no relevant financial or nonfinancial relationships.*

8. CLEFT RHINOPLASTY

Authors: **James Smartt**

***Disclosures:** The presenter has disclosed no relevant financial or nonfinancial relationships.*

9. BONE GRAFTING THE CLEFT MAXILLA IN OLDER PATIENTS: SALVAGE AND REVISION

Authors: **Timothy Turvey**

***Disclosures:** The presenter has disclosed no relevant financial or nonfinancial relationships.*

10. MANAGEMENT OF CLEFT LIP AND PALATE IN ADULTS

Authors: **Luiz Pimenta**

***Disclosures:** The presenter has disclosed no relevant financial or nonfinancial relationships.*

11. THE YOUNG ADULT WITH A CLEFT: PSYCHOLOGICAL AND PSYCHOSOCIAL PERSPECTIVES

Authors: **Margot Stein**

***Disclosures:** The presenter has disclosed no relevant financial or nonfinancial relationships.*

12.^ GENETIC CONSIDERATIONS FOR ADULT PATIENTS WITH FACIAL CLEFTS

Authors: **Howard Saal**

***Disclosures:** Howard Saal has disclosed no relevant nonfinancial relationships and the following financial relationship: Medical Advisory Board for Alexion Pharmaceuticals, Speakers Bureau for Alexion Pharmaceuticals.*

13. ANKYLOSIS AND TMJ MANAGEMENT

Authors: **Paul Tiwana**

***Disclosures:** Paul Tiwana has disclosed no relevant nonfinancial relationships and the following financial relationship: Speaking honoraria from Zimmer Biomet and from KLS Martin.*

14. MANAGEMENT OF PIERRE-ROBIN SEQUENCE IN THE SKELETALLY MATURE PATIENT

Authors: **Ramon Ruiz**

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

15. MEASURING OUTCOMES AT THE END OF CLEFT TREATMENT

Authors: **Carolyn Rogers-Vizena**, Alexander Allori, Maarten Koudstaal, Kathy Chapman, Ross Long, Jr, Thomas Kelley, Jason Arora, John Meara

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

16. A SEMINAR ON INCREASING LEADERSHIP EFFECTIVENESS

Authors: **Martin Lowery, Jamie Idelberg, Angela Dixon, Gregory Allen**

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

17. IF DISNEY RAN YOUR TEAM

Authors: **Richard Kirschner**

Disclosures: *The presenter has disclosed no relevant financial or nonfinancial relationships.*

18. ^ THEY'RE NOT JUST BIG KIDS: A SERVICE DELIVERY MODEL FOR YOUNG ADULTS WITH CLEFT LIP/PALATE

Authors: **Linda D. Vallino, Brenda Louw**

Disclosures: *Linda Vallino has disclosed no relevant nonfinancial relationships and the following financial relationship: I receive royalties on a textbook, 'Evaluation and Management of Cleft Lip and Palate: A Developmental Approach.' Brenda Louw has disclosed no relevant nonfinancial relationships and the following financial relationship: East Tennessee State University.*

19. THE AMERICLEFT PROJECT: PROGRESS AND GUIDELINES FOR PARTICIPATION IN COLLABORATIVE INTERCENTER OUTCOMES STUDIES

Authors: **Ross Long, Jr, Kathy Chapman, Kathleen Kapp-Simon, Thomas Sitzman**

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

20. COMMISSION ON APPROVAL OF TEAMS: TEAM APPROVAL PROCESS

Authors: **Jamie Idelberg**

Disclosures: *The presenter has disclosed no relevant financial or nonfinancial relationships.*

21. STRUCTURE VERSUS FUNCTION: MANAGING COMPLEX VELOPHARYNGEAL DYSFUNCTION

Authors: **Kristen DeLuca, Sara Kinter**

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

22. PERSONAL STORIES OF LEADERSHIP

Authors: **Patricia Bender, Michael Nelson, Krishna Patel**

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

23. WEIGHT CHANGES AND GROWTH PATTERNS AT FIVE YEARS OF AGE FOLLOWING PALATOPLASTY IN INFANCY

Authors: **Linda Duffy**

Disclosures: *The presenter has disclosed no relevant financial or nonfinancial relationships.*

24. LEVATOR VELI PALATINI MUSCLE MORPHOLOGY IN ADULTS WITH REPAIRED CLEFT PALATE USING MRI

Authors: **Katelyn Kotlarek**, Jamie Perry

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

25. READABILITY ASSESSMENT OF ONLINE PATIENT INFORMATION FOR CLEFT AND CRANIOFACIAL ANOMALIES

Authors: Roja Garimella, **Jeyhan Wood**

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

26. DENTAL ANOMALIES IN PERMANENT DENTITION OF PATIENTS WITH UNILATERAL COMPLETE CLEFT LIP AND PALATE IN EASTERN CHINA

Authors: **Zhenqi Chen**

Disclosures: *The presenter has disclosed no relevant financial or nonfinancial relationships.*

27. A NEW OPERATION TECHNIQUE COMBINING MILLARD, ONIZUKA, AND NOORDHOFF TECHNIQUES FOR UNILATERAL CLEFT LIP TO ACHIEVE SYMMETRY OF THE VERMILION AND UPPER WHITE LIP

Authors: **Ayako Akizuki**, Noriyoshi Sumiya, Takaaki Kamatani, Hitoshi Nemoto, Tomoichiro Togo, Kenta Miyabe, Tatsuo Shiota

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

28. USE OF QUALITY IMPROVEMENT METHODS TO INCREASE THE PROPORTION OF PRESCHOOL-AGE CHILDREN THAT RECEIVE A COMPLETE AND STANDARDIZED SPEECH EVALUATION

Authors: **Thomas Sitzman**, Ann Kummer, Janet Middendorf, John van Aalst, Maria Britto

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

29. ORAL HEALTH-RELATED QUALITY OF LIFE IN CHILDREN WITH OROFACIAL CLEFTS IN PUERTO RICO: PILOT STUDY

Authors: **María Andreina Angulo-Martínez**, Keyla Pagan-Rivera, Natalio Debs, Azeez Butali, Deborah Dawson, Antonio Rivera-Luna, Maria Salcedo, Augusto Elias-Boneta, Hillary Broder, Carmen Buxo

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

30. RACIAL DISPARITIES IN THERAPEUTIC SERVICE UTILIZATION FOR CHILDREN WITH CLEFT PALATE

Authors: **Kazlin Mason**, Charles Ellis, Jamie Perry, John Riski

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

31. TREATMENT OPTIONS FOR CARIOUS PRIMARY MAXILLARY ANTERIOR TEETH IN PATIENTS WITH CLEFT LIP AND/OR PALATE: A RETROSPECTIVE STUDY

Authors: Erin Shope, Clinton Morrison, **Zachary Mills**

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

32. MORPHOLOGICAL DIFFERENCES IN THE CRANIOFACIAL COMPLEX OF PATIENTS WITH NON-SYNDROMIC CLEFT LIP AND PALATE VERSUS DENTOFACIAL SKELETAL DEFORMITY

Authors: **Payal Verma**, Denise Liberton, Snehlata Oberoi, Bonnie Padwa, Janice S. Lee

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

33. EVALUATION OF WOUND HEALING AND BONE REGENERATION USING PLATTELET RICH FIBRIN PRF MEMBRANE IN DISTRACTION SITE FOLLOWING MID MAXILLARY DISTRACTION IN PATIENTS WITH CLEFT LIP AND PALATE FOR CORRECTION OF SKELETAL CLASS III MAXILLARY DEFICIENCY

Authors: **Marwa Madi**, Rania Fahmy, Hassan Moussa

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

34. PREVALENCE OF SUBMUCOUS CLEFT PALATE IN CHILDREN WITH ISOLATED CLEFT LIP

Authors: **Olga Košková**, Jitka Vokurková, Martin Fiala, Jana Bartošková

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

35. HOW DO RELIGIOUS AND SPIRITUAL BELIEFS INFLUENCE COPING WITH CLEFT LIP AND/OR PALATE?

Authors: **Anthony Bui**, Mairaj Ahmed, Emanuela Taioli, Elizabeth Weissler, Bryn Webb, Deborah Marin, Peter Taub, Vanshdeep Sharma

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

36. ANALYSIS OF RISK FACTORS ASSOCIATED WITH UNPLANNED RE-OPERATIONS FOLLOWING PEDIATRIC PLASTIC SURGERY

Authors: **Kevin Jubbal**, Dmitry Zavlin, Larry Hollier

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

37. PRESURGICAL NASOALVEOLAR MOLDING FOR CLEFT LIP AND PALATE: THE APPLICATION OF DIGITALLY DESIGNED MOLDS

Authors: **Gang Chai**

Disclosures: *The presenter has disclosed no relevant financial or nonfinancial relationships.*

38. ESTIMATING THE BURDEN OF ORTHODONTIC CARE IN PATIENTS WITH A CLEFT LIP AND/OR PALATE

Authors: **Paul Bigg**, Nicholas Kochenour, Manish Valiathan

***Disclosures:** The presenters have disclosed no relevant financial or nonfinancial relationships.*

39. DELAYED REFERRAL TO A CRANIOFACIAL SPECIALIST LIMITS OPTIONS FOR TREATMENT OF CRANIOSYNOSTOSIS

Authors: **Brad Gandolfi**, Danielle Sobol, Alfredo Farjat, Alexander Allori, Carrie Muh, Jeffrey Marcus

***Disclosures:** The presenters have disclosed no relevant financial or nonfinancial relationships.*

40. MIDMAXILLARY INTERNAL DISTRACTION OSTEOGENESIS: THE USE OF FIBEROPTIC VIDEO NASOPHARYNGEAL ENDOSCOPY TO GUIDE SURGICAL DECISION MAKING

Authors: **LisaMarie Di Pasquale**, Elena-Lee Ritoli, Kelly Mabry, Richard Bevilacqua

***Disclosures:** The presenters have disclosed no relevant financial or nonfinancial relationships.*

41. PREDICTORS FOR SUCCESSFUL CORRECTION OF VELOPHARYNGEAL INSUFFICIENCY BY USING DOUBLE-OPPOSING Z-PALATOPLASTY

Authors: **Cheng Chun Wu**, Jui Pin Lai

***Disclosures:** The presenters have disclosed no relevant financial or nonfinancial relationships.*

42. TGFA /BAMHI, TGFB3 /SFAN1, IRF6 /MBOI AND BMP4 /HPH1 GENE POLYMORPHISMS IN TWO FAMILIES WITH HISTORY OF NONSYNDROMIC CLEFT LIP AND PALATE

Authors: **Ani Melani Maskoen**, Endah Mardiaty, Ira Komara, Irna Sufiawati, Saskia Nasroen, Eky Soeria Soemantri

***Disclosures:** The presenters have disclosed no relevant financial or nonfinancial relationships.*

43. PATIENT-SPECIFIC 3D-PRINTED CRYOGEL SCAFFOLDS FOR PERSONALIZED TISSUE ENGINEERED BONE REGENERATION IN CHILDREN WITH CLEFT-CRANIOFACIAL DEFECTS

Authors: Katherine Hixon, Alexa Melvin, **Alexander Lin**, Andrew Hall, Scott Sell

***Disclosures:** The presenters have disclosed no relevant financial or nonfinancial relationships.*

44. INPATIENT PROTOCOL FOR EARLY AIDING OF THE PATIENT WITH COMPLEX CRANIOFACIAL ANOMALY AND HEARING LOSS

Authors: **Ann Narimasu-Phomenone**, Jamie Uesato, Helen Lau, Joan Meister

***Disclosures:** The presenters have disclosed no relevant financial or nonfinancial relationships.*

45. IMPACT OF A PEDIATRIC SLEEP MEDICINE SPECIALIST ON THE CLEFT AND CRANIOFACIAL TREATMENT TEAM

Authors: **Ronald Brown**, Morrison Clinton, Heidi Connolly

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

46. ORAL HEALTH RELATED QUALITY OF LIFE OF ETHIOPIAN CHILDREN AND ADOLESCENTS WITH CLEFT LIP AND PALATE AND THE PERCEPTION OF THEIR PARENTS

Authors: **Mekonen Eshete**, Wakgari Deressa, Azeez Butali, Fikre Abate, Oladugba Bola, Taye Hailu, Abiye Hailu, Yohannes Demissie, Paul Egl Gravem, Peter Mossey

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

47. EARLY VERSUS LATE CLEFT PALATE REPAIR OUTCOMES IN PATIENTS WITH PIERRE ROBIN

Authors: Ethan Baughman, Katelyn Davidson, Sybill Naidoo, **Gary Skolnick**, Kamlesh Patel

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

48.^ IMPACT OF AN INTENSIVE ARTICULATION THERAPY PROGRAM ON CLEFT COMPENSATORY ERRORS

Authors: **Amy Morgan**, Meredith Albert, Stephanie McConville

Disclosures: *Amy Morgan has disclosed no relevant financial relationships and the following nonfinancial relationship: Member of ASHA SIG 5 Professional Development committee.*

49. EARLY INTERVENTION FOR CHILDREN WITH CLEFT PALATE: A LONGITUDINAL ANALYSIS

Authors: **Kari Lien**, Nancy Scherer, Ann Kaiser, Jennifer Frey

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

50. MINIMALLY IMPORTANT DIFFERENCE OF THE CHILD ORAL HEALTH IMPACT PROFILE FOR CHILDREN WITH OROFACIAL ANOMALIES

Authors: Ryan Ruff, **Hillary Broder**, Lacey Sischo

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

51.^ EFFECTS OF CONTINUOUS POSITIVE AIRWAY PRESSURE (CPAP) THERAPY ON LEVATOR VELI PALATINI VOLUME AND CROSS SECTIONAL AREA

Authors: **Youkyung Bae**

Disclosures: *Youkyung Bae has disclosed no relevant nonfinancial relationships and the following financial relationship: I have nonfinancial relationship (in-kind support) in the product (CPAP device, Philips-Respironics, Murrysville, PA) described in this study.*

52. TRANSVERSE SKELETAL AND DENTOALVEOLAR EFFECTS OF RME USING TWO DIFFERENT EXPANDER SCREWS IN CLEFT PATIENTS: AN EVALUATION OF THE UPPER FIRST PERMANENT MOLAR REGION

Authors: **Luciane Macedo de Menezes**, Susana Rizzato, Fabiane Azeredo

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

53. MEDICAL AND PSYCHOSOCIAL CONCERNS OF ADOLESCENTS AND YOUNG ADULTS WITH CRANIOFACIAL MICROSOMIA: A QUALITATIVE STUDY

Authors: Kayla Hamilton, Kay Chang, Kelly Ormond, **Jon Bernstein**

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

54. THE INCREASING BIRTH PREVALENCE OF PIERRE ROBIN SEQUENCE: IS THERE A LINK TO NEONATAL ABSTINENCE SYNDROME?

Authors: **Jonathan Simmonds**, Andrew Scott

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55.^ KEYNOTE SPEECH

Authors: **Rick Guidotti**

Disclosures: *Rick Guidotti has disclosed the following financial and nonfinancial relationship: Founder and CEO of Positive Exposure.*

56. PRE- AND POST-OPERATIVE NEURODEVELOPMENT IN PATIENTS WITH UNICORONAL OR METOPIC CRANIOSYNOSTOSIS

Authors: **Alexis Johns**, J. Gordon McComb, Mark Urata

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

57. FLASH CT: A TECHNIQUE DEVELOPED TO REDUCE THE CONTROVERSY IN PEDIATRIC CRANIOFACIAL IMAGING

Authors: **Neil Stewart**, Alex Kane, Rami Hallac, Min-Jeong Cho, James Seaward

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

58. ELEVATED RISK OF AUTISM SPECTRUM DISORDER IN CHILDREN WITH ATYPICAL DELETIONS AND DUPLICATIONS OF 22Q11.2 INCLUDING LCR-A TO B VS LCR-B TO D

Authors: **Tara Wenger**, Caitlin Clements, Donna McDonald-McGinn, Lauren DePolo, Beverly Emanuel, Elaine Zackai, Robert Schultz

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

59. A COMPARISON OF MIXED DENTITION DENTAL ARCH RELATIONSHIPS AMONG FOUR CENTERS USING DISTINCTLY DIFFERENT INFANT MANAGEMENT PROTOCOLS

Authors: **Cheryl Anderson-Cermin**, John Daskalogiannakis, Ronald Reed Hathaway, Patricia Glick, Stephen Beals, Ana Mercado, Kathleen Russell, Jean-Charles Doucet, Elizabeth Da Costa, Azadeh Reyhani, Lexi Weaver, Ross Long, Jr

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

60. PREOPERATIVE PARENT ANXIETY AND POSTOPERATIVE INFANT PAIN: A PROSPECTIVE STUDY OF INFANTS UNDERGOING CLEFT AND CRANIOFACIAL SURGERY

Authors: **Rebecca Rosenberg**, Rachael Clark, **Patricia Chibbaro**, Alan Mendelsohn, Chris Feudtner, Jean-Marie Bruzzese, Lauren Knickerbocker, H Hambrick

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

61. PREDICTORS OF POSTPARTUM DEPRESSION IN MOTHERS OF INFANTS WITH CLEFT LIP/PALATE

Authors: **Alexis Johns**, Jennifer Hershfield, Netsanet Mulugeta, Karla Haynes

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

62. IRF6 REGULATES APOPTOSIS MECHANISM THROUGH HIPK2 DURING PALATAL FUSION

Authors: **Chen-Yeh Ke**, Fen-Hwa Wong, Lun-Jou Lo

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

63.^ PROSPECTIVE EVALUATION OF SPEECH OUTCOME FOLLOWING PHARYNGEAL FLAP SURGERY IN 22Q11.2 DELETION SYNDROME

Authors: **Adriane Baylis**, Gregory Pearson, Maura Natale, Rachel Whitney, Richard Kirschner

Disclosures: *Adriane Baylis has disclosed no relevant financial relationships and the following nonfinancial relationships: Editor, ASHA SIG 5 Perspectives Coordinating Committee, ASHA SIG 5 ACPA Education Committee and Program Committee.*

64.^ REVISION VELOPHARYNGEAL SURGERY IN THE FACE OF SLEEP APNEA

Authors: **Steven Goudy**, Travis Tollefson, Ann Kummer, Sean Edwards, Brian Andrews

Disclosures: *Ann Kummer has disclosed no relevant nonfinancial relationships and the following financial relationships: Royalties for the textbook entitled: Cleft Palate and Craniofacial Anomalies: The Effects on Speech and Resonance, 3rd Edition, Cengage Learning, 2014. Royalties for a clinical device: The Oral & Nasal Listener, Super Duper, Inc. Patent for the Nasoscope, marketed as the Oral & Nasal Listener. The other presenters have disclosed no relevant financial or nonfinancial relationships.*

65. TRANSORBITAL SURAL NERVE GRAFTING FOR PEDIATRIC NEUROTROPHIC KERATOPATHY

Authors: Phuong Nguyen, **James Thomas Paliga**, Karen Revere, Trenton Rivera, Ari Wes, Duncan Mackay, Sameer Shakir, Mina Massaro-Giordano, William Katowitz

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

66. PATIENT-SPECIFIC 3D MODELS FOR AUTOGENOUS EAR RECONSTRUCTION

Authors: Lukasz Witek, Kimberly Khouri, Paulo Coelho, **Roberto Flores**

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

67. RESPIRATORY AND SLEEP CHANGES FOLLOWING PALATOPLASTY IN INFANTS WITH PIERRE ROBIN SEQUENCE: AN ASSESSMENT OF SAFETY USING POLYSOMNOGRAPHY

Authors: **Max Rotatori**, Nataliya Biskup, Stacey Ishman, Haithem Elhadi Babiker, Christopher Runyan, Christopher Gordon, Brian Pan

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

68. THE EFFECTIVE USE OF DIGITAL IMAGES: A NOVEL AND SECURE METHODOLOGY FOR USE IN CLINICAL PRACTICE AND RESEARCH

Authors: **Monali Mahedia**, Rami Hallac, James Seaward, Alex Kane

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

69. TENZEL/SCHRUDDE DEEP PLANE CERVICOFACIAL FLAP RECONSTRUCTION OF THE TESSIER #4 FACIAL CLEFT

Authors: **Roberto Flores**, Christopher Runyan, Michael Alperovich, Pradip Shetye, Richard Lisman, Elcin Esenlik, Lawrence Brecht, Barry Zide

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

70. CAMP SMILE: AN INTERDISCIPLINARY TREATMENT APPROACH TO STRENGTHEN ARTICULATION AND SOCIAL-EMOTIONAL FUNCTIONING THROUGH THE ARTS

Authors: **Stephanie McConville**, Meredith Albert, Amy Morgan

Disclosures: *Amy Morgan has disclosed no relevant financial relationships and the following nonfinancial relationship: Member of ASHA SIG 5 Professional Development committee.*

71. COMPUTER-AIDED DESIGN AND 3D PRINTING TO PRODUCE A MODEL FOR SIMULATION OF CLEFT LIP REPAIR

Authors: S. Ahmed Ali, **David Zopf**, Kevin Green, Glenn Green

Disclosures: *David Zopf has disclosed no relevant nonfinancial relationships and the following financial relationship: A provisional patent is in preparation and anticipated to be submitted.*

72. SILVER DIAMINE FLUORIDE FOR PATIENTS WITH CLEFT LIP AND PALATE: ARRESTING CARIES IN DIFFICULT TO ACCESS TEETH

Authors: **Erin Shope**

Disclosures: *The presenter has disclosed no relevant financial or nonfinancial relationships.*

73.^ DEVELOPMENT AND EVALUATION OF A NOVEL HIGH-FIDELITY CLEFT LIP SIMULATOR

Authors: **Dale Podolsky**, Karen Wong, James Drake, Christopher Forrest, David Fisher

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and is a shareholder in the company. The presenting author is a shareholder of Simulare Medical Corp., which produced the cleft lip and cleft palate simulator and is the owner of it's intellectual property.

74. THE UTILITY OF 3D CAD/CAM FOR CRANIAL VAULT RECONSTRUCTION IN COMPLEX AND MULTI-SUTURAL CRANIOSYNOSTOSIS

Authors: **Stephen Lu**, Rachel Gray, Shaun Rodgers, Steven Schneider, Neil Tanna, Nicholas Bastidas

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

75. LONG-TERM RESULTS OF THE USE OF BOTOX AS AN ADJUNCT FOR CLEFT LIP RECONSTRUCTION

Authors: Stephanie Koonce, **Alfredo Lloreda**, Eric Stelnicki

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

76.^ SPEECH CAMP FOR PRE-TEENS WITH 22Q11.2 DELETION SYNDROME: LESSONS LEARNED

Authors: Jessica Williams, Carolynne Garrison Howard, **Kelly Cordero**, Cortney Ramsden, Tifani Wilhelm, Gloria Yi, Deborah Leach, Theresa Grebe

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77.^ THE TEXAS TWO-STEP PROTOCOL FOR INTERNAL MAXILLARY DISTRACTION

Authors: **Jaime Gateno**, James Xia, John Teichgraeber, Matthew Greives

Disclosures: *Jaime Gateno has disclosed no relevant nonfinancial relationships and the following financial relationship: Univeristy of Texas for Medical Modeling Technology.*

78. CASE SERIES OF CHILDREN WITH APERT SYNDROME WITH ATYPICAL PRESENTATION OF CRANIOSYNOSTOSIS

Authors: **Han Zhuang Beh**, Alexander Lin

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

79. SEPTAL ANCHORING SUTURE: A KEY SUTURE TO IMPROVE THE NASOLABIAL SYMMETRY IN UNILATERAL CHEILOPLASTY

Authors: **Ting-chen Lu**, Chuan-Fong Yao, Philip Kuo-Ting Chen

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

80. PREMAXILLARY MOLDING FOR DIFFICULT BILATERAL CLEFT LIP AND PALATES

Authors: **Sean Figy**, Kelli Hickle, Beth Roscoe, Philip Stoddard, Kristin Stueber

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

81. MIDLINE BONE GRAFT AND TEMPORAL LIMB BANDEAU MODIFICATIONS IN FRONTO-ORBITAL ADVANCEMENT FOR UNICORONAL CRANIOSYNOSTOSIS: A 3D ASSESSMENT OF SYMMETRY

Authors: **Pang-Yun Chou**, Rami Hallac, Christopher Warne, Jacqueline Wegge, Paul Tiwana, Alex Kane, Christopher Derderian

***Disclosures:** The presenters have disclosed no relevant financial or nonfinancial relationships.*

82. CHANGING PERSPECTIVES ABOUT IDENTIFYING BARRIERS TO CARE: IMPROVING OUTCOMES AND QUALITY OF LIFE BY BEING PROACTIVE INSTEAD OF REACTIVE TO PATIENT NEEDS

Authors: **Cassandra Aspinall**, Andrew Woolley

***Disclosures:** The presenters have disclosed no relevant financial or nonfinancial relationships.*

83. EXPLORING THE CHALLENGES OF NAVIGATING THE CONTEMPORARY DATING WORLD WITH A FACIAL DIFFERENCE

Authors: **Aileen Blitz**, **Jennifer Ruggiero**, Dina Zuckerberg

***Disclosures:** The presenters have disclosed no relevant financial or nonfinancial relationships.*

84. DEVELOPING A MULTIDISCIPLINARY FEEDING TEAM FOR YOUR CLEFT LIP AND PALATE PROGRAM

Authors: Courtney Hall, Lauren Madhoun, Caitlin Cummings, **Katherine Eastman**, Nancy Neal, Amanda Smith, Kimberly Ross, Adriane Baylis, Courtney Hall, Lauren Madhoun, Caitlin Cummings

***Disclosures:** The presenters have disclosed no relevant financial or nonfinancial relationships.*

85. ZIKA VIRUS IN INFANTS AND CHILDREN: AN OVERVIEW OF THE PHENOTYPE

Authors: **Michael Nelson**, **Miguel del Campo**

***Disclosures:** The presenters have disclosed no relevant financial or nonfinancial relationships.*

86.^ CHANGING PERSPECTIVES ON BEAUTY: THE WORLD OF POSITIVE EXPOSURE

Authors: **Bieke Kreps**, **Rick Guidotti**

***Disclosures:** Rick Guidotti has disclosed the following financial and nonfinancial relationship: Founder and CEO of Positive Exposure. The other presenters have disclosed no relevant financial or nonfinancial relationships.*

87. MEDICALLY NECESSARY CRANIOFACIAL ORTHODONTIC TREATMENT: STRATEGIES FOR SUCCESSFULLY OBTAINING INSURANCE COVERAGE

Authors: **Margy Maroutsis**

***Disclosures:** The presenter has disclosed no relevant financial or nonfinancial relationships.*

88. 3D RECORDS: IMPACT, COST EFFECTIVENESS, AND EXPECTATIONS

Authors: **Christian El Amm**

Disclosures: *The presenter has disclosed no relevant financial or nonfinancial relationships.*

89. NICU ALERT: THE IMPACT OF EARLY AUDIOLOGIC INVOLVEMENT

Authors: **Brittney Sprouse**

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90. JOURNAL MANUSCRIPT PREPARATION AND SUBMISSION

Authors: **Jack Yu, Stephen Conley**

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

91. MUSCLE-DERIVED STEM CELL ENRICHED SCAFFOLDS ARE CAPABLE OF ENHANCED HEALING OF A MURINE VOLUMETRIC MUSCLE LOSS DEFECT

Authors: **Howard Wang**, Denver Lough, Jose Alonso-Escalante, Amy Quan, Qiongyu Guo, Joseph Lopez, robin yang, W.P. Andrew Lee, Gerald Brandacher, Anand Kumar

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

92. NEONATAL SATELLITE CELLS FORM ONLY SMALL MYOTUBES IN VITRO: IMPLICATIONS FOR NEW THERAPIES BASED ON TISSUE ENGINEERING

Authors: **Paola L. Carvajal Monroy**, Anne Marie Kuijpers-Jagtman, Frank Wagener, Johannes Von den Hoff

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

93. ENDOSCOPIC REPAIR OF UNILATERAL SQUAMOSAL CRANIOSYNOSTOSIS

Authors: **Emily Waselchuk**, Lauren Bohm, Robert Tibesar, Meysam Kebriaei

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

94. ^ EFFECTIVE PRACTICE IN HIGH NEEDS SCHOOL DISTRICTS: EVALUATION AND TREATMENT OF CHILDREN WITH CRANIOFACIAL ANOMALIES

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95. THE IMPACT OF TIMING OF TYMPANOSTOMY TUBE PLACEMENT ON SEQUELAE IN CHILDREN WITH CLEFT PALATE

Authors: **Amber Shaffer**, Matthew Ford, Sukgi Choi, Noel Jabbour

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

96. THE ROLE OF THE CLEFT NURSE COORDINATOR IN REDUCING NEWBORN COMMUNITY HOSPITAL TRANSFERS FOR CLEFT RELATED FEEDING PROBLEMS

Authors: **Irene Doringo**, Anthony Gibson, John Teichgraeber, Matthew Greives

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97. EXAMINING THE CONCORDANCE BETWEEN MUAC Z-SCORE AND BMI Z-SCORE IN PATIENTS WITH CLEFT LIP AND PALATE

Authors: **Erin Lindhorst**, Kristi Thaete, Susan Abdel-Rahman

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

98. PRENATAL ISOLATED CLEFT LIP WITH OR WITHOUT CLEFT PALATE AND POSTNATAL ASSOCIATED MALFORMATIONS

Authors: **Mona Haj**, Maarten Koudstaal, Jeannette Hoogeboom, Titia Cohen-Overbeek

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

99. A NOVEL MRI EVALUATION OF CHANGES IN VELOPHARYNGEAL ANATOMY AND PHYSIOLOGY FOLLOWING THE REMEDIATION OF THE POSTERIOR NASAL FRICATIVE

Authors: **Kazlin Mason**, Eshan Pua, Jamie Perry

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

100. A UNIQUE MODEL FOR FELLOWSHIP TRAINING IN CRANIOFACIAL SPEECH PATHOLOGY: FIVE YEARS IN REVIEW

Authors: **Caitlin Cummings**, Rachel Hogan, Maura Natale, Chelsea Sommer, Natalie Wombacher, Adriane Baylis

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

101. OUT-OF-POCKET DENTAL & ORTHODONTIC COSTS FOR CHILDREN WITH CLEFT LIP AND/OR PALATE COMPARED TO CHILDREN WITHOUT CLEFT LIP AND/OR PALATE

Authors: **Erin Shope**, Morvarid Aletomeh, Yasmine Zangeneh

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102. FACIAL ASYMMETRY AND SOCIAL FUNCTIONING IN CHILDREN AND ADOLESCENTS WITH CLEFT LIP AND/OR PALATE

Authors: Angela Salemi Milanes, **Celia Heppner**, Lillian Hamill

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

103. COMPARED OUTCOMES BETWEEN CLOSED CANCELLOUS AND OPEN CORTICOCANCELLOUS BONE GRAFTING TECHNIQUES FOR ALVEOLAR CLEFT REPAIR

Authors: **Frankie Wong**, Rizal Lim, Wayne Ozaki

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

104. SPATIALLY DETAILED 3D QUANTIFICATION OF IMPROVEMENT OF FACIAL SYMMETRY AFTER SURGERY IN CHILDREN WITH UNILATERAL CORONAL SYNOSTOSIS (UCS)

Authors: **Louise Owall**, Tron A. Darvann, Hanne Dahlgaard Hove, Nuno V Hermann, Sven Kreiborg

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105. 3D MODELS OF HEAD AND NECK PATHOLOGY

Authors: **Ingrid Ganske**, Salim Afshar, John Meara, Sanjay Prabhu

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106.^ SPEECH THERAPY CHARACTERISTICS OF 5-6 YEAR OLD CHILDREN WITH CLEFT PALATE

Authors: **Adriane Baylis**, Angela Dixon, Lauren Beckett, Lindsay Helderma, Emma Logdahl, Alyssa Kuric, Alexandra Bode, Kelly Cordero, Cindy Dobbeltsteyn, Judith Trost-Cardamone, Kristina Wilson, Kathy Chapman

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107. EFFECTIVENESS OF A NOVEL AUGMENTED REALITY-BASED NAVIGATION SYSTEM IN TREATMENT OF ORBITAL HYPERTELORISM

Authors: **Ming Zhu**

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108. LOWER EYELID CHANGES FOLLOWING MIDFACE DISTRACTION AFTER THE PUBERTY IN CROUZON'S DISEASE

Authors: **Ha Min Sung**, Jee Hyeok Chung, Kyung Chan Ahn, Tae Hyun Choi, Suk Wha Kim

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109. THE REMOVABLE PREMAXILLA REPOSITIONING APPLIANCE FOR TREATMENT OF BILATERAL CLEFT LIP AND PALATE

Authors: **Nicholas Kochenour**, Suliman Shahin, Mohamed Bazina, Manish Valiathan, Gregory Lakin

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

110. DOES THE USE OF ADULT LEARNING PRINCIPLES IMPROVE LEARNER UNDERSTANDING WITHIN A SPEECH-LANGUAGE DEVELOPMENT PROGRAM FOR CAREGIVERS OF INFANTS WITH UNREPAIRED CLEFT PALATE?

Authors: **Sarah Vetter**, Julia Corcoran

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

111. CLEFT HEALTH DISPARITIES: DELAY IN PRIMARY SURGICAL REPAIR OF CHILDREN WITH CLEFT LIP AND PALATE AMONG MINORITY POPULATIONS

Authors: **Perry Bradford**, Delnaz Patel, Rebekah Zaluzec, Angelica Alonso, Janine Rosenberg, Ellyn McNamara

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

112. OBJECTIVE ANTHROPOMETRIC MEASUREMENTS VIA 3D STEREOPHOTOGRAMMETRY FOR ASSESSING SEVERITY AND TREATMENT OF UNILATERAL CLEFT LIP NASAL DEFORMITY

Authors: **Makinna Oestreich**, Ezgi Mercan, David Fisher, Linda Shapiro, Stephen Beals, Alexander Allori, Thomas Samson, Thomas Sitzman, Damir Matic, Raymond Tse

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

113. QUALITY OF LIFE AND PEDIATRIC CRANIOFACIAL CONDITIONS: THE UCSD INTERNATIONAL EXPERIENCE IN THE DEVELOPMENT OF A BILINGUAL AND BICULTURAL PATIENT REPORTED OUTCOMES MEASURE

Authors: **Viridiana Tapia**, Julia Drizin, Vanessa Malcarne, Amanda Gosman

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114. TRANSFORMING GROWTH FACTOR B3 / GENE SFANI POLYMORPHISM ASSOCIATED WITH NON SYNDROMIC CLEFTLIP AND PALATE AMONG INDONESIAN PATIENTS

Authors: **Saskia Nasroen**, Andi Tajrin, Ani Maskoen

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115. DEVELOPMENT OF SYMBOLIC BEHAVIOR IN CHILDREN WITH AND WITHOUT REPAIRED CLEFT PALATE

Authors: **Marziye Eshghi**, Jacqueline Dorry, Elizabeth Crais, Adriane Baylis, Linda D. Vallino, Daniela Vivaldi, John Preisser, David Zajac

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116. NASALANCE SCORES IN NORMAL MONGOLIAN CHILDREN AND IN REPAIRED CLEFT LIP AND PALATE CHILDREN

Authors: **Shagdar Batsukh**, Amarsaikhan Bazar, Purevjav Nynrag, Nagato Natsume, Ariuntuul Garidkhuu, 2

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117. EFFECTIVENESS OF EARLY POST-OPERATIVE PROPHYLACTIC PULSED DYE LASER ON CLEFT LIP SCAR: A RANDOMIZED CONTROL TRIAL

Authors: **Ying Yin Lam**, PL Tong, David Luk, KY Lam, G Fung, P Tang, N Chao, K Liu, HB Chan

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

118. SQUAMOSAL CRANIOSYNOSTOSIS: EXPECTED PHENOTYPE AND MANAGEMENT

Authors: Alexander Lin, **Kashyap Tadisina**

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119. A REVIEW OF CRANIOFACIAL FINDINGS IN RASOPATHIES

Authors: **Najla Alrejaye**, Haotian Cao, Alice Goodwin, Ophir Klein, Snehlata Oberoi

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120.^ SPEECH OUTCOMES IN THE ROBIN SEQUENCE POPULATION

Authors: **Natalie Wombacher**, Steven Buchman, Steve Kasten, Christian Vercler

Disclosures: *Natalie Wombacher has disclosed no relevant nonfinancial relationships and the following financial relationship: University of Michigan Western Michigan University- teaching instructor.*

121. BEYOND THE OR: GENETIC COUNSELING IS AN ESSENTIAL PART OF MULTIDISCIPLINARY CARE FOR PATIENTS WITH COMPLEX CLEFT AND CRANIOFACIAL ANOMALIES

Authors: **Natalie Beck**, Colleen Gioffreda, Kim Seifert, Edward Ahn, Amir Dorafshar, Anand Kumar, Richard Redett, Julie Hoover-Fong

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122. INTERNATIONAL SPECIAL NEEDS ADOPTION IN THE CLEFT CLINIC

Authors: **Colleen Gioffreda**, Natalie Beck, Kim Seifert, Richard Redett, Julie Hoover-Fong

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

123. REPAIR OF THE UNILATERAL CLEFT WITHOUT PRESURGICAL ORTHOPEDICS: DECREASING BURDEN OF CARE

Authors: **Martha Matthews**, Atlee Melillo, Marilyn Cohen

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

124. IL-10 AND BMP-2 MEDIATED BONE REGENERATION IN THE INFECTED CALVARIAL DEFECT IN RABBITS

Authors: **Michael Bykowski**, Liliana Camison, Lee Weiss, Phil Campbell, Greg Cooper, Joseph Losee

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

125. PSYCHOSOCIAL DEVELOPMENT OF PEDIATRIC PATIENTS WITH CRANIOFACIAL ANOMALIES: DIFFERENCES IN THE ELEMENTARY, MIDDLE, AND HIGH SCHOOL YEARS

Authors: **Elizabeth Volpicelli**, Kevin Hakimi, Miles Pfaff, R. Solem, Justine Lee

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126. INTRACRANIAL PRESSURE PATTERNS IN CHILDREN WITH CRANIOSYNOSTOSIS UTILIZING OPTICAL COHERENCE TOMOGRAPHY

Authors: **Jordan Swanson**, Wen Xu, Tomas Aleman, Gui-Shuang Ying, Shih-Shan Lang, Greg Heuer, William Katowitz, Scott Bartlett, Jesse Taylor

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

127. ELASTIC CHAIN PREMAXILLARY RETRACTION APPLIANCE DOES NOT INCREASE TELECANTHUS IN PATIENTS WITH BILATERAL COMPLETE CLEFT LIP AND PALATE

Authors: **Hamad Burashed**, Cory Resnick, Elizabeth Ross, John Mulliken, Bonnie Padwa

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

128. SUPRAGLOTTOPLASTY IMPROVES SUCCESS RATES FOR AIRWAY TREATMENT IN ROBIN SEQUENCE PATIENT POPULATION TREATED WITH MANDIBULAR DISTRACTION OSTEOGENESIS

Authors: **Stephanie Cohen**, Sarah Fernandez, S. Travis Greathouse, Melinda Costa, John Dahl, Bruce Matt, Tahiri Youssef, Sunil Tholpady

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

129. UTILIZATION OF A CRANIOFACIAL MALFORMATION PATIENT COHORT TO IDENTIFY NOVEL SYNDROMES LEADING TO TARGETED THERAPEUTICS DEVELOPMENT

Authors: **Elizabeth Bhoj**, Hakon Hakonarson, Dong Li, Elaine Zackai, Margaret Harr

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

130. POLYSOMNOGRAPHIC SCREENING OF PATIENTS WITH 22Q11.2 DELETION SYNDROME BEFORE AND AFTER POSTERIOR PHARYNGEAL FLAP SURGERY FOR VELOPHARYNGEAL DYSFUNCTION

Authors: **Brian Chang**, Kristina Ivanova, Cynthia Solot, Meg Maguire, Donna McDonald-McGinn, Margaret Solders, Thornton Mason, Lisa Elden, Oksana Jackson

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

131.^ ORTHOGNATHIC SURGERY VERSUS DISTRACTION OSTEOGENESIS: WHAT'S THE BEST COURSE OF ACTION?

Authors: **Jennifer Woerner**, **Timothy Turvey**, **Stephanie Drew**, **Ghali Ghali**, **Jaime Gateno**

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132.^ DIAGNOSTIC APPROACH TO THE CHILD WITH APPARENT ISOLATED ABNORMALITIES OF CRANIOFACIAL STRUCTURES: TOWARDS THE DEVELOPMENT OF ASSESSMENT ALGORITHMS

Authors: **Anne Hing, Michael Cunningham, Kelly Evans, Yvonne Gutierrez, Tara Wenger, Elizabeth Bhoj, Emily Gallagher, Howard Saal, Ophir Klein, Robert Byrd, Katrina Dipple**

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133.^ FEEDING AND SWALLOWING IN INFANTS AND TODDLERS WITH CLEFT LIP AND PALATE: EVIDENCE AND PRACTICE

Authors: **Maia Braden, Bryn Olson-Greb**

Disclosures: *Maia Braden has disclosed no relevant nonfinancial relationships and the following financial relationship: Salary from UW Madison School of Medicine and Public Health. Bryn Olson-Greb has disclosed no relevant nonfinancial relationships and the following financial relationship: Salary from UW School of Medicine and Public Health.*

134. INTERPRETING THE INSTRUMENTAL EVALUATION OF VELOPHARYNGEAL FUNCTION

Authors: **Sara Kinter, Kathleen Sie, Kaylee Paulsgrove**

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

135. THE EVOLVING ROLL OF DENTAL SPECIALISTS IN CLEFT CARE: CURRENT PRACTICES IN PEDIATRIC DENTISTRY, PROSTHODONTICS, ORTHODONTICS, AND ORAL & MAXILLOFACIAL SURGERY

Authors: **Jason Dashow, Ronald Reed Hathaway, Lizbeth Holguin, Stephanie Munz, Jennifer Woerner**

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136.^ PRACTICAL GUIDELINES FOR MANAGING PATIENTS WITH 22Q11.2 DELETION SYNDROME

Authors: **Donna McDonald-McGinn, Cynthia Solot, Meg Maguire, Oksana Jackson**

Disclosures: *Donna McDonald-McGinn has disclosed no relevant nonfinancial relationships and the following financial relationship: Speakers Bureau - Natera. The other presenters have disclosed no relevant financial or nonfinancial relationships.*

137. INNOVATION IN CLEFT PALATE RECONSTRUCTIVE SURGERY: HOW TO USE BUCCAL MYOMUCOSAL FLAPS

Authors: **Robert Mann, John Girotto, John Polley**

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138.^ IDENTIFYING CLEFT SPEECH CHARACTERISTICS 101: SPEECH RATINGS FOR THE NOVICE LISTENER

Authors: **Angela Dixon, Kristina Wilson, Adriane Baylis, Kathy Chapman, Kelly Cordero, Cindy Dobbelsteyn, Anna Thurmes, Judith Trost-Cardamone**

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139. CONTEMPORARY MANAGEMENT OF THE ALVEOLAR CLEFT IN PATIENTS WITH CLEFT LIP AND PALATE

Authors: **Michael Lypka, Alison Kaye, Heather Hendricks**

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

140.^ INNOVATIVE TEACHING METHODS FOR GRADUATE STUDENTS IN SPEECH-LANGUAGE PATHOLOGY

Authors: **Kerry Mandulak, Alison Scheer-Cohen, Dana Collins, Kelly Cordero, Anna Thurmes**

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141. SLP'S ROLE IN DECISION MAKING FOR VPD WITH COMPLEX PATIENTS - CASE STUDIES AND DISCUSSION

Authors: **Sarah Metzler, Jeff Steffen, Jennifer Maybee, Bridget Harrington, Joyanne McShea, Gregory Allen**

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

142. NEONATAL EAR MOLDING: A PRACTICAL HANDS-ON INSTRUCTIONAL COURSE

Authors: **James Seaward**, Savannah Brown, Jessica Woods, Laura Hanna, Elizabeth Wetz, Kaylee Williams, Alex Kane

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

143. THE FURLOW PALATOPLASTY: A PRACTICAL GUIDE

Authors: **Richard Kirschner, Alison Kaye**

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

144. UNDERSTANDING OBSTRUCTIVE SLEEP APNEA IN CHILDREN WITH CLEFT LIP AND/OR PALATE

Authors: **Joanna MacLean**

Disclosures: *The presenter has disclosed no relevant financial or nonfinancial relationships.*

145.^ NASOPHARYNGOSCOPY: METHODS FOR OBTAINING A SUCCESSFUL EXAMINATION WITH PRESCHOOL CHILDREN AND INTERPRETATION OF FINDINGS FOR SURGICAL PLANNING

Authors: **Ann Kummer**

Disclosures: Ann Kummer has disclosed no relevant nonfinancial relationships and the following financial relationships: Royalties for the textbook entitled: *Cleft Palate and Craniofacial Anomalies: The Effects on Speech and Resonance*, 3rd Edition, Cengage Learning, 2014. Royalties for a clinical device: *The Oral & Nasal Listener*, Super Duper, Inc. Patent for the Nasoscope, marketed as the Oral & Nasal Listener.

146. MULTIDISCIPLINARY STRATEGIES TO AVOID OR TO TREAT SHORT-TERM AND LONG-TERM COMPLICATIONS OF NEONATAL MANDIBULAR DISTRACTION

Authors: **Michael Lypka, Heather Hendricks, Jeffrey Goldstein**

Disclosures: The presenters have disclosed no relevant financial or nonfinancial relationships.

147.^ CASE STUDIES IN SPEECH SOUND THERAPY: ELICITATION THROUGH TRANSFER TO SPONTANEOUS SPEECH

Authors: **Lynn Grames, Kristina Wilson, Amy Morgan, Ellen Moore, Kristen DeLuca**

Disclosures: Kristina Wilson has disclosed the following financial relationships: Grant funding for Americleft Speech Project through NIH and money from ACPA/CPF, and the following nonfinancial relationships: ACPA Board of Directors, ASHA Special Interest Group 5 Coordinating Committee, Assistant Coordinator. Amy Morgan has disclosed no relevant financial relationships and the following nonfinancial relationship: Member of ASHA SIG 5 Professional Development committee. The other presenters have disclosed no relevant financial or nonfinancial relationships.

148. ORTHOPEDIC AND ORTHODONTIC TREATMENT FOR PATIENTS WITH CLEFTS OF THE LIP AND PALATE: FROM BIRTH TO MIXED DENTITION

Authors: **Pedro Santiago**

Disclosures: The presenter has disclosed no relevant financial or nonfinancial relationships.

149.^ CLINICAL RESEARCH IN INFANTS WITH CLEFTS OF THE LIP AND PALATE: WHAT SHOULD WE MEASURE?

Authors: **Carrie Heike, Kathleen Kapp-Simon, Cassandra Aspinall, Todd Edwards, Ross Long, Jr, Kathy Chapman, David Fitzsimons, William Shaw**

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150. MARGINAL BONE LOSS AROUND IMPLANTS PLACED INTO ALVEOLAR CLEFT SITES FOLLOWING SECONDARY BONE GRAFT

Authors: **Takaaki Kamatani, Maiko Suzuki, Hiroshi Ogura, Tatsuo Shiota**

Disclosures: The presenters have disclosed no relevant financial or nonfinancial relationships.

151. SURGICALLY ENFORCING NORMALCY: A CRITICAL ANALYSIS OF INTERNATIONAL CRANIOFACIAL NGOS

Authors: **Marley Hamrick**

Disclosures: *The presenter has disclosed no relevant financial or nonfinancial relationships.*

152.^ USE OF THE UNIVERSAL PARAMETERS RATING SYSTEM TO ASSESS SEVERITY OF VELOPHARYNGEAL INSUFFICIENCY AND DETERMINE NEED FOR IMAGING AND SURGERY

Authors: **Courtney Stephens**, Kim-Loan Luu, Irene Doringo, Riley Dean, John Teichgraeber, Matthew Greives

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153. EVALUATION OF THE PIERRE ROBIN SEQUENCE MANDIBLE AND AIRWAY USING COMPUTED TOMOGRAPHY

Authors: Daniel Bienstock, Rama Ayyala, Sidney Eisig, **Michael Perrino**

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

154. THE EFFECTS OF SPEECH STIMULUS ON THE RELIABILITY OF VISUAL JUDGMENTS OF VP PHYSIOLOGY

Authors: **Amanda Warner**, Lynn Grames, Thomas Watterson, Jeanne Wendel

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

155. THE IMPACT OF TIMING AND CONCURRENT FRONTO-ORBITAL ADVANCEMENT ON POSTOPERATIVE COMPLICATIONS OF CRANIOSYNOSTOSIS REPAIR IN THE UNITED STATES

Authors: **Peter Abraham**, Michael Brandel, Christopher Reid, Samuel Lance, Hal Meltzer, Amanda Gosman

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

156. ASSESSMENT OF BLOOD LOSS IN ADULT PATIENTS WITH CLEFT LIP AND PALATE TREATED BY ORTHOGNATHIC SURGERY DESIGNED WITH 3-DIMENSIONAL COMPUTER-ASSISTED SIMULATION AND NAVIGATION

Authors: **Chi-Yu Tsai**, Shiu-Shiung Lin, Jui-Pin Lai, Yu-Jeng Chang, Te-Ju Wu

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

157. A MODEL FOR COORDINATED INTERDISCIPLINARY CARE FOR CHILDREN WITH 22Q11.2 DELETION SYNDROME

Authors: **Courtney Hall**, Richard Kirschner, Scott Hickey, Canice Crerand, Jonathan Grischkan, Nancy Neal, Amanda Smith, Katherine Eastman, Michele Buck, Adriane Baylis

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

158. ARE THE PRE-OPERATIVE ANTHROPOMETRIC MEASUREMENTS OF THE CLEFT PALATE IN PIERRE ROBIN SEQUENCE DIFFERENT FROM THAT IN ISOLATED CLEFT PALATE?

Authors: **Paula Tang**, Kelvin Liu

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159. LONG TERM EFFECTS OF NASOALVEOLAR MOLDING IN PATIENTS WITH COMPLETE UNILATERAL CLEFT LIP AND PALATE

Authors: **Azadeh Reyhani**, John Daskalogiannakis, Kathleen Russell, Jean-Charles Doucet, Ana Mercado, Ronald Reed Hathaway, Patricia Glick, STEPHEN BEALS, Ross Long, Jr

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160. EXAMINATION OF THE TREATMENT OF EARLY CHILDHOOD CARIES UNDER GENERAL ANESTHESIA IN CHILDREN WITH CRANIOFACIAL ANOMALIES

Authors: Erin Shope, **Andrew Winslow**, Clinton Morrison,

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161. FIRST BIRTHDAY, FIRST DENTAL VISIT: ARE PATIENTS WITH CLEFT LIP AND/OR PALATE MEETING THIS RECOMMENDATION?

Authors: Erin Shope, Clinton Morrison, **Virginia Yanez**, Lenora Colaruotolo, Joseph Khouri

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162. AN ONLINE MULTIMEDIA EDUCATIONAL SIMULATOR FOR THE MULTIDISCIPLINARY SPEECH CARE OF PATIENTS WITH CLEFT PALATE

Authors: **J. Rodrigo Diaz-Siso**, Natalie Plana, Shelley Cohen, Court Cutting, Roberto Flores

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163. NASALANCE SCORES IN VIETNAMESE CHILDREN WITH REPAIRED CLEFT PALATE WITH OR WITHOUT CLEFT LIP

Authors: **Thai Nguyen**, Lagle Lehes, Hang Truong, Anh Hoang, Triin Jagomagi

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164. OCCULT SUBMUCOUS CLEFT PALATE –SURGERY OR CONSERVATIVE TREATMENT?: RETROSPECTIVE MONOCENTRIC 10 –YEAR STUDY

Authors: **Olga Košková**, Jitka Vokurková, Martin Fiala, Jana Bartošková

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165. ESTABLISHING WITHIN-TEAM RELIABILITY ON SPEECH THERAPY MEASURES AND DOCUMENTATION FOR ARTICULATION, VOICE AND RESONANCE

Authors: **Jennifer Maybee**, Sarah Metzler, Bridget Harrington, Joyanne McShea, Jeff Steffen, Ericka Wendorf, Sharon Rueter, Jennifer Cupples

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166. PRECISE POSITIONING OF AN INTRAORAL DISTRACTOR USING AUGMENTED REALITY IN PATIENTS WITH HEMIFACIAL MICROSOMIA

Authors: **Song Xu**

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167. PREDICTING FACTORS OF COMPLICATION IN CLEFT LIP AND PALATE SURGERY: A PROSPECTIVE OUTCOMES STUDY IN NICARAGUA

Authors: **Marco Swanson**, Allyn Auslander, Breanna Jedrzejewski, Bryan Mejia, Tatiana Morales, Rodrigo Cabrera, Armando Siu, William Magee, Ruben Ayala, Jordan Swanson (7

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168. MANDIBULAR CATCH-UP GROWTH IN PIERRE ROBIN SEQUENCE: A SYSTEMATIC REVIEW

Authors: **Chad Purnell**, Lindsay Janes, Julian Klosowiak, Arun Gosain

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169. PIERRE ROBIN SEQUENCE: STRATIFYING FEEDING DYSFUNCTION AND IDENTIFYING VARIABLES AFFECTING OUTCOME

Authors: **Wei Wei Lee**, Wendy Chen, Joshua Barnett, John Henry Pang, Matthew Ford, Joseph Losee, Jesse Goldstein

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

170. ENHANCED CARE-PLAN IMPACTS ON LENGTH OF HOSPITAL STAY FOR CLEFT OPERATIONS IN A REGIONAL CENTRE: AN INTERIM ANALYSIS

Authors: Nicholas Chao, Clarence Liu, Sam Lam, Wai Man Wong, Paula Tang, Ann Wu, Kelvin Liu, P K Ma, H B Chan, **Chiu Yu Chow**

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

171. PRIMARY SURGICAL OUTCOME OF COMPLETE UNILATERAL CLEFT LIP AND PALATE PATIENTS BORN IN NEW ZEALAND USING A VISUAL ANALOGUE SCALE (VAS) AND THE GOSLON ASSESSMENT OF 3D DIGITAL ORTHODONTIC STUDY MODELS

Authors: **Peter Fowler**, Heather Keall, Daniel Kennedy, David Healey, John Thompson,

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172. A MATHEMATICAL MODEL OF CLOSURE BIOMECHANICS PREDICTS RESONANCE RATINGS AMONG CHILDREN WITH 22Q11.2 DELETION SYNDROME

Authors: **Lakshmi Kollara**, Catherine Pelland, Silvia Blemker, Jamie Perry

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173.^ ASSISTED REPRODUCTIVE TECHNOLOGY (ART), TERATOGENS AND OROFACIAL CLEFTING IN A LARGE ACADEMIC CLEFT CLINIC

Authors: **Julie Hoover-Fong**, Natalie Beck, Colleen Gioffreda, Kim Seifert, Richard Redett

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174. NASOLABIAL FISTULA IN CLEFT LIP AND PALATE: BURDEN OF DISEASE, AND MULTI-CENTER EVALUATION OF A TECHNIQUE TO PREVENT AND TREAT

Authors: **Jordan Swanson**, Edwar Alvarez, Miguel Farina, Oscar Rodriguez, Rodrigo Cabrera, Ruben Ayala, William Magee

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175. SPEECH AND PSYCHOSOCIAL STATUS IN PATIENTS PRESENTING WITH VELOPHARYNGEAL DYSFUNCTION

Authors: **Leanne Magee**, Oksana Jackson, Cynthia Solot, Susan McCormack, Meg Maguire, Emily Bobyock, Praneeth Meka, Kayley Slicer, Leanne Magee

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

176. A COMPARATIVE STUDY OF TWO PRIMARY PALATAL SURGERIES ON VELOPHARYNGEAL FUNCTIONING RELATED TO SPEECH OUTCOMES COMPLETED BY ONE SURGEON

Authors: **Patricia Stone**, Ananth Murthy

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

177. LE FORT II DISTRACTION WITH SIMULTANEOUS ZYGOMATIC REPOSITIONING FOR SEVERE SLEEP APNEA IN ACHONDROPLASIA

Authors: **Gerhard S. Munding**, Richard Hopper, Srinivas Susarla, Amir Dorafshar, Mark Fisher, James Smartt, Christopher Derderian

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178. TO ADMIT OR NOT TO ADMIT - THAT IS THE CLEFT LIP QUESTION

Authors: **Izabela Galdyn**, Artur Fahradyan, Beina Azadgoli, Mark Urata, Stacey Francis

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179. COST EFFECTIVENESS ANALYSIS OF DEMINERALIZED BONE MATRIX AND RHBMP-2 VS. AUTOLOGOUS ILIAC CREST GRAFTING IN ALVEOLAR CLEFT PATIENTS

Authors: **Sagar Mehta**, Barbu Gociman, Faizi Siddiqi, James Wilcockson, Ross Blagg, Duane Yamashiro

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

180. OPTIMIZING TEAM EFFICIENCY IN CLEFT PALATE CLINIC; A BUSINESS PROCESS IMPROVEMENT INITIATIVE

Authors: **Amanda Smith**, Stephanie Carzoo, Christina Stocker, Gregory Pearson, Adriane Baylis, Richard Kirschner

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181. THE PERSPECTIVE OF TEAM SCIENCE AS A MODEL FOR ADVANCING RESEARCH IN CRANIOFACIAL MICROSOMIA

Authors: **Amelia Drake**, Daniela Luquetti, Craig Birgfeld, Alexis Johns, Scott Bartlett, Mark Urata, Kathleen Sie, Matthew Speltz, Kathy Kapp-Simon, Luiz Pimenta, Leanne McGee, Babette Saltzman, Brian Leroux, Daniela Vivaldi, Lauren Kilpatrick, Anne Hing, Laura Stueckle, Marina Rampazzo, Carrie Heike

***Disclosures:** The presenters have disclosed no relevant financial or nonfinancial relationships.*

182. INFANT CLEFT OBSERVER OUTCOMES (ICOO): IDENTIFICATION OF OBSERVABLE SIGNS OF HEALTH AND WELL-BEING IN INFANTS WITH CLEFTS

Authors: **Laura Stueckle**, Carrie Heike, Cassandra Aspinall, Claudia Crilly Bellucci, Donald Patrick, Janine Rosenberg, Kathleen Kapp-Simon, Meredith Albert, Solange Mecham, Suzel Bautista, Todd Edwards

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183. TREATMENT OF CLASS III MALOCCLUSION WITH ANCHORED MAXILLARY PROTRACTION IN CLEFT CHILDREN

Authors: **Yijin Ren**, Johan Jansma, Harry Stamatakis

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184. A PRIMER ON STATE STATUTORY MANDATES OF THIRD-PARTY ORTHODONTIC COVERAGE FOR CLEFT PALATE AND CRANIOFACIAL CARE

Authors: **Kristin D Pfeifauf**, Gary Skolnick, Sybill Naidoo, Richard J Nissen, Kamlesh Patel

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185. ORTHODONTISTS AND CLEFT PALATE CARE- IDENTIFYING BARRIERS TO PARTICIPATION

Authors: **Suzanne Beshore**, **Chuen Chie Chiang**

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186. ADHERENCE TO ORTHODONTIC TREATMENT IN YOUTH WITH CLEFT LIP AND/OR PALATE

Authors: **Canice Crerand**, Adriana C. Da Silveira, Hillary Kapa, Jennifer Litteral, Mia Markey, Ana Mercado, Michelle Scott

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187. MANDIBULAR AND MAXILLARY CEPHALOMETRIC ANALYSIS OF TREACHER COLLINS SYNDROME (TCS)

Authors: **Elcin Esenlik**, Natalie Plana, Roberto Flores, David Staffenberg, Pradip Shetye, Joseph McCarthy, Barry Grayson

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188. LINTON A. WHITAKER LECTURE

Authors: **Henry Kawamoto**

Disclosures: *The presenter has disclosed no relevant financial or nonfinancial relationships.*

189. LONG-TERM STABILITY OF PROPTOSIS CORRECTION BY LE FORT III DISTRACTION OSTEOGENESIS IN PRE-ADOLESCENT PATIENTS WITH SYNDROMIC CRANIOSYNOSTOSIS

Authors: **Travis Gibson**, Barry Grayson, Pradip Shetye, Joseph McCarthy

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190. DEFINING AND CORRECTING ORBITAL ASYMMETRY IN ISOLATED UNILATERAL FRONTOSPHEOIDAL SYNOSTOSIS AS COMPARED TO UNICORONAL SYNOSTOSIS: A CASE-CONTROL STUDY

Authors: **Gerhard S. Munding**, Richard Hopper, Rachel Skladman, Tara Wenger, Craig Birgfeld, Edward Buchanan, Joseph Gruss

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191. LONG-TERM OUTCOMES AT SKELETAL MATURITY FOLLOWING CRANIAL VAULT REMODELING AND FRONTO-ORBITAL ADVANCEMENT FOR METOPIC CRANIOSYNOSTOSIS

Authors: **Simrat Suri**, Michael Alperovich, Jonathan Bekisz, Roberto Flores, David Staffenberg

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192. CRANIOSYNOSTOSIS SURGERY: IMPACT OF TXA DOSING

Authors: **Nicole Kurnik**, Lacey Pflibsen, Annie Do, Ruth Bristol, Davinder Singh

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193. 3D CT AIRWAY ANALYSIS IN PATIENTS WITH SYNDROMIC CRANIOSYNOSTOSIS AND OBSTRUCTIVE SLEEP APNEA

Authors: **Karan Ganjawalla**, Cory Resnick, Bonnie Padwa

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194. NASAL ROOT DEVIATION IN UNICORONAL CRANIOSYNOSTOSIS: A CRANIOMETRIC ANALYSIS OF EARLY AND LATE POSTOPERATIVE OUTCOMES

Authors: **Ari Wes**, Daniel Mazzaferro, Sanjay Naran, Scott Bartlett, Jesse Taylor

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195. ANTHROPOMETRIC OUTCOME MEASURES IN PATIENTS WITH METOPIC CRANIOSYNOSTOSIS

Authors: **Scott Farber**, Dennis Nguyen, Gary Skolnick, Sybill Naidoo, Matthew Smyth, Kamlesh Patel

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196.^ DEVELOPING THE SOCIAL WORK ROLE IN AN INTEGRATED CLINICAL PATHWAY FOR WEIGHT-FALTERING INFANTS WITH CRANIOFACIAL CONDITIONS

Authors: **Andrew Woolley**, Cassandra Aspinall

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197. THE CAMP EXPERIENCE FOR PATIENTS WITH CLEFT/CRANIOFACIAL DIAGNOSIS

Authors: **Savannah Brown**, Elizabeth Wetz, Alex Kane, Laura Hanna, Jessica Woods, Kaylee Williams

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198. ADDRESSING PSYCHOSOCIAL CONCERNS WITH CHILDREN WITH MICROtia AND THEIR FAMILIES

Authors: **Alexis Johns**, Nicole Mahrer

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

199. ADVANCE HEALTH CARE DIRECTIVES FOR YOUNG ADULTS IN CRANIOFACIAL CARE

Authors: **Laura Garcia**, Alexis Johns

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

200. THE CHALLENGES OF MENTAL HEALTH PROFESSIONALS ON CRANIOFACIAL/CLEFT TEAMS: PERSPECTIVES FROM THE FIELD

Authors: **Adam Blancher**

Disclosures: *The presenter has disclosed no relevant financial or nonfinancial relationships.*

201.^ DISSEMINATION AND IMPLEMENTATION OF A STANDARD SET OF OUTCOME MEASURES FOR THE COMPREHENSIVE APPRAISAL OF CLEFT CARE

Authors: **Alexander Allori**, John Meara, Carolyn Rogers-Vizena, Maarten Koudstaal, Kathy Chapman, Ross Long, Jr, Jason Arora

Disclosures: *Jason Arora has disclosed no relevant nonfinancial relationships and the following financial relationship: Employee of ICHOM. The other presenters have disclosed no relevant financial or nonfinancial relationships.*

202.^ DEVELOPMENT OF EARLY SOUNDS AND WORDS IN CHILDREN WITH AND WITHOUT REPAIRED CLEFT PALATE

Authors: Marziye Eshghi, Jacqueline Dorry, Daniela Vivaldi, Elizabeth Crais, Linda D. Vallino, Adriane Baylis, John Preisser, **David Zajac**

Disclosures: *David Zajac has disclosed no relevant nonfinancial relationships and the following financial relationship: I receive royalties for the book, 'Evaluation and Management of Cleft Lip and Palate: A Developmental Perspective'.*

203.^ SINGLE-WORD INTELLIGIBILITY OF SCHOOL-AGED CHILDREN WITH UNREPAIRED ALVEOLAR CLEFTS

Authors: **David Zajac**

Disclosures: *David Zajac has disclosed no relevant nonfinancial relationships and the following financial relationship: I receive royalties for the book, 'Evaluation and Management of Cleft Lip and Palate: A Developmental Perspective'.*

204. LEXICAL AND MORPHOSYNTACTIC ABILITIES IN TWO-YEAR-OLD CHILDREN WITH AND WITHOUT REPAIRED CLEFT PALATE

Authors: **Marziye Eshghi**, Adriane Baylis, Linda D. Vallino, Elizabeth Crais, John Preisser, Daniela Vivaldi, Jacqueline Dorry, David Zajac

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

205. ASSOCIATIONS BETWEEN ARTICULATION SKILL AND LATER PHONOLOGICAL AWARENESS

Authors: Amy Morgan, **Mary O'Gara**, Claudia Crilly Bellucci, Sebastian Linde, Meredith Albert, Arthur Curtis, Kathleen Kapp-Simon

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206.^ LONGITUDINAL ASSESSMENT OF RELATIONSHIP BETWEEN VELOPHARYNGEAL FUNCTION AND ARTICULATION PERFORMANCE

Authors: **Amy Morgan**, Claudia Crilly Bellucci, Mary O'Gara, Sebastian Linde, Meredith Albert, Arthur Curtis, Kathleen Kapp-Simon

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207. SPEECH OUTCOMES AFTER LEFORT I OSTEOTOMY

Authors: Tara Braun, Edward Buchanan, David Khechoyan, John Wirthlin, Kristina Wilson, Ellen Moore, Cristina Hernandez, **Laura Monson**

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208. BENCHMARKING SPEECH OUTCOMES OF KINDERGARTENERS WITH CLEFT PALATE

Authors: **Kathy Chapman**, Angela Dixon, Kristina Wilson, Cindy Dobbelsteyn, Kelly Cordero, Judith Trost-Cardamone, Lauren Beckett, Lindsay Helderma, Emma Logdahl, Alyssa Kuric, Adriane Baylis

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

209. INDUCED NEURAL PROGENITOR-LIKE CELLS FROM HUMAN GINGIVA-DERIVED MESENCHYMAL STEM CELLS REGULATE MYELINATION OF SCHWANN CELLS IN RAT SCIATIC NERVE REGENERATION

Authors: **Phuong Nguyen**, Qunzhou Zhang, Qilin Xu, Wonse Park, Sumin Lee, Akihiro Furuhashi, Anh Le

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210. FUNCTIONAL CHARACTERIZATION IN ZEBRAFISH OF HUMAN GRHL3 MUTATIONS ASSOCIATED WITH CLEFT PALATE IN SUB-SAHARAN AFRICAN POPULATIONS

Authors: Mary Li, Mekonen Eshete, Wasiu Adeyemo, Lord Gowans, Tamara Busch, Ganiyu Oseni, Mary Marazita, Adebawale Adeyemo, Peter Mossey, Jeffrey Murray, **Azeez Butali**,

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211. ALVEOLAR BONE REGENERATION WITH A NOVEL OSTEOGENIC AGENT, OXY133

Authors: **Reena Bakshi**, Akishige Hokugo, Situo Zhou, Frank Stappenbeck, Farhad Parhami, Reza Jarrahy

***Disclosures:** The presenters have disclosed no relevant financial or nonfinancial relationships.*

212. DETERMINING THE CAUSE OF GROWTH RESTRICTION AND ASYMMETRY FOLLOWING EARLY CRANIOFACIAL SKELETAL SURGERY USING FINITE ELEMENT ANALYSIS

Authors: **Donna Jones**, Montserrat Caballero, GR Liu, James Lin, Jacob Knorr, Zimo Zhu, Xu Huang, John van Aalst

***Disclosures:** The presenters have disclosed no relevant financial or nonfinancial relationships.*

213. DEVELOPMENT OF THE FIRST PERMANENT MANDIBULAR MOLAR IN YOUNG CHILDREN WITH BILATERAL COMPLETE CLEFT LIP AND PALATE (BCCLP)

Authors: **Nuno V Hermann**, Tron A. Darvann, Sven Kreiborg

***Disclosures:** The presenters have disclosed no relevant financial or nonfinancial relationships.*

214. ANALYSIS OF FOLLICLE-STIMULATING HORMONE RECEPTOR EXPRESSION IN INFANTILE HEMANGIOMA

Authors: **Reid Maclellan**, Fu Xi, Javier Couto, Lan Huang, Matthew Vivero, Joyce Bischoff, Arin Greene

***Disclosures:** The presenters have disclosed no relevant financial or nonfinancial relationships.*

215. DIGITAL-FACIAL AUTOTRANSPLANTATION IN AMNIOTIC BAND SEQUENCE: EVIDENCE OF THE INTRINSIC THEORY

Authors: **Christopher Runyan**, Brielle Weinstein, Roberto Flores, David Staffenberg, Christopher Gordon

***Disclosures:** The presenters have disclosed no relevant financial or nonfinancial relationships.*

216. 3D MANDIBULAR MORPHOLOGY IN PIERRE ROBIN SEQUENCE

Authors: **Elizabeth Zellner**, Russell Reid, Derek Steinbacher

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

217. EFFECT OF OSTEOTOMY TYPE AND STAGE OF TOOTH DEVELOPMENT ON TOOTH VIABILITY FOLLOWING DISTRACTION OSTEOGENESIS IN PATIENTS WITH MAXILLARY HYPOPLASIA

Authors: **Mariana Muguerza**, Barbara Sheller, Bryan Williams, Geoff Greenlee

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218. INFECTION RATES IN INFANT MANDIBULAR DISTRACTION CAN BE REDUCED WITH A PERIOPERATIVE PROTOCOL

Authors: **Patrick Gerety**, Ari Wes, Wen Xu, Daniel Mazzaferro, Jing Li, Scott Bartlett, Jesse Taylor

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

219. PATTERNS OF MINOR SUTURE SYNOSTOSIS IN NONSYNDROMIC SINGLE SUTURE CRANIOSYNOSTOSIS

Authors: **Wen Xu**, Daniel Mazzaferro, Jing Li, Christopher Runyan, Scott Bartlett, Jesse Taylor

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

220. MUSCLE-DERIVED STEM CELLS (MDSCS) CAN TRANSFORM INTO SCHWANN CELL-LIKE CELLS: PRELIMINARY STUDIES ASSESSING THE PHENOTYPE AND FUNCTIONAL MYELINATION PROPERTIES OF MDSCS IN-VITRO

Authors: **Joseph Lopez**, Leila Musavi, Jose Escalante, Markus Tammia, Amy Quan, Howard Wang, Qiongyu Guo, Gerald Brandacher, W.P. Andrew Lee, Ahmet Hoke, Anand Kumar

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221. MITIGATION OF RADIATION INDUCED INJURY IN NON-VASCULARIZED BONE GRAFT RECONSTRUCTION OF THE MURINE MANDIBLE USING A NOVEL DEFEROXAMINE NANOPARTICLE

Authors: **Russell Ettinger**, Noah Nelson, Alicia Snider, Alexis Donneys, Jessie Hoxie, Joseph Perosky, Steven Buchman

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222. SECONDARY DEFORMITIES OF NEONATAL AND INFANT MANDIBULAR DISTRACTION

Authors: **Christian El Amm**, Omar Beidas, Obaid Chaudhry, Matthew Isakson

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223. INTERDISCIPLINARY ASSESSMENT AND INTERVENTION ADDRESSING FEEDING DISORDERS AND MEALTIME CHALLENGES IN CHILDREN WITH CLEFTS AND CRANIOFACIAL DIFFERENCES

Authors: **Noreen Clarke**, Karen Park, Mildred Leatham, Aaron Tanner

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224. WEIGHT GAIN IN INFANTS WITH CLEFT PALATE +/- CLEFT LIP FROM BIRTH TO 3 MONTHS CONSIDERING CLEFT AND BOTTLE TYPE

Authors: **Jessica Williams**

Disclosures: *The presenter has disclosed no relevant financial or nonfinancial relationships.*

225. PARENTAL INFORMATION, KNOWLEDGE AND UNDERSTANDING OF THE IMPORTANCE OF TUMMY TIME FOR PREVENTING DEFORMATIONAL PLAGIOCEPHALY: A SURVEY

Authors: **Kanlaya Dittthakasem**, John Kolar, Morley Herbert, Rose Johnson, Delonda Wizgen, Stephanie Howard, Julie Christoph

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226. NURSE PRACTITIONER IMPLEMENTATION OF NASOALVEOLAR MOLDING

Authors: **Carolyn Walborn**, **Bethany Giacobbe**, Steven Buchman, Steve Kasten, Christian Vercler

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

227. FEEDING PANEL: INTERDISCIPLINARY APPROACHES TO FEEDING CHALLENGES OF CLEFT/CRANIOFACIAL CARE

Authors: Margaret Langham, **Brenda Thompson**, **Debra Paul**, **Noreen Clarke**

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

228. PEDIATRIC NASOORBITALETHMOID FRACTURES: A SINGLE INSTITUTION'S THIRTY YEAR EXPERIENCE

Authors: **Joseph Lopez**, JD Luck, Robin Yang, Gabriel Siegel, Muhammad Faateh, Alexandra MacMillan, Jacqueline Milton, Amir Dorafshar

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229. LONG-TERM SPEECH, HEARING AND COGNITIVE OUTCOMES IN CLEFT PATIENTS: A POPULATION-BASED STUDY IN THE ISRAELI ARMY RECRUITS

Authors: **Ayal Hassidim**, Nirit Yavani, Stav Sarna Cahan, Alexander Margulis

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230. SPEECH AND SURGICAL OUTCOMES IN INTERNATIONAL ADOPTEES WITH CLEFT PALATE

Authors: **Mitchell Pet**, Ryan Dodge, Babette Saltzman, Sara Kinter, Raymond Tse

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231. LONG-TERM OUTCOMES OF DEMINERALIZED BONE MATRIX AND RESORBABLE MESH BILAMINATE CRANIOPLASTY IN LARGE PEDIATRIC CALVARIAL DEFECTS IN THE SETTING OF SCARRED DURA

Authors: **Jonathan Lee**, Lucas Dvoracek, Joseph Losee, Jesse Goldstein

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232. THE AFFECTS OF SPHINCTER PHARYNGOPLASTY ON POLYSOMNOGRAPHY IN PATIENTS WITH VELOPHARYNGEAL INSUFFICIENCY

Authors: Christina Busuito, Nathan Vandjelovic, **Diana Flis**, Arlene Rozzelle

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

233. BMP-2 ALVEOLAR BONE RECONSTRUCTION HAS IMPROVED BONE HEALING WITHOUT SIGNIFICANT DIFFERENCES IN DENTAL OUTCOMES

Authors: **Lawrence Rudolf**, Dave Ho, Jeremy Goss, Margie Hunter, Ross Long, Jr, Eric Ambrecht, Alexander Lin

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

234. THE DOUBLE OPPOSING Z-PLASTY +/- BUCCAL FLAP APPROACH FOR THE CLEFT PALATE: A REVIEW OF 505 CONSECUTIVE CASES

Authors: **Robert Mann**, Mitchell Eichhorn, John Girotto, John Polley, Matthew Martin, Keith Neaman

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235. EFFECT OF PALATE LENGTH IN VELOPHARYNGEAL FUNCTION AFTER PRIMARY PALATOPLASTY

Authors: **Jui Pin Lai**, Cheng Chun Wu

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

236. SUFFICIENT VELAR LENGTH IS PREREQUISITE TO THE EFFECTIVENESS OF INTRAVELAR VELOPLASTY: A RANDOMIZED CONTROLLED STUDY

Authors: **Jingtao Li**, Bing Shi, Qian Zheng, Yan Wang

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

237. COMPARISON OF ALVEOLAR BONE GRAFT OUTCOMES WITH OR WITHOUT THE USE OF CORTICAL BONE GRAFT FOR NASAL FLOOR RECONSTRUCTION IN CLEFT LIP AND PALATE

Authors: **Jean-Charles Doucet**, Kathleen Russell, Jennifer Kearns, Scott Martyna, John Daskalogiannakis, Patricia Glick, Stephen Beals, Michelle Kornbluth, Ana Mercado, Thomas Sitzman, Nick Emanuele, Richard E. Campbell, Ronald Reed Hathaway, Ross Long, Jr

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238. PEDIATRIC INTENSIVE CARE UNIT MONITORING AFTER PHARYNGEAL FLAP SURGERY: IS IT NECESSARY?

Authors: **Sashank Reddy**, Srinivas Susarla, Nance Yuan, Gurjot Walia, Danielle Rochlin, Richard Redett

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239. EXTENDED RELEASE LIPOSOMAL BUPIVACAINE INJECTION (EXPAREL®) FOR EARLY POSTOPERATIVE PAIN CONTROL FOLLOWING PHARYNGOPLASTY: A CASE SERIES

Authors: **Narayanan Nair**, Kristopher Day, Devan Griner, Larry Sargent

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

240. A 20 YEAR RETROSPECTIVE CLINICAL STUDY OF ONE VS. TWO-STAGE REPAIR OF ASYMMETRIC BILATERAL CLEFT LIP IN A SINGLE LARGE CLEFT CENTER

Authors: **Kyunghoon Chung**, Lun-Jou Lo

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241. ARITHMETICAL CALCULATION AND RELATED NEUROPSYCHOLOGICAL SKILLS IN SUBJECTS WITH ISOLATED ORAL CLEFTS

Authors: **Jon Goodwin**, Amy Conrad, Timothy Ansley, Peg Nopoulos

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242. READING ACHIEVEMENT IN BOYS WITH ISOLATED CLEFT PALATE AND CLEFT LIP AND PALATE COMPARED TO UNAFFECTED BOYS WITH AND WITHOUT IMPAIRED READING

Authors: **Amy Conrad**, Ian DeVolder, Peg Nopoulos

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

243. EARLY PREDICTORS OF READING ACHIEVEMENT IN CHILDREN WITH OROFACIAL CLEFTS

Authors: **Claudia Crilly Bellucci**, Amy Morgan, Meredith Albert, Mary O'Gara, Arthur Curtis, Sebastian Linde, Kathleen Kapp-Simon

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244. AN INVESTIGATION INTO RATES OF IMPAIRMENT IN READING FLUENCY AND COMPREHENSION AMONG CHILDREN WITH OROFACIAL CLEFTS: IMPLICATIONS FOR INTERVENTION

Authors: **Meredith Albert**, Amy Morgan, Claudia Crilly Bellucci, Sebastian Linde, Mary O'Gara, Kathleen Kapp-Simon

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

245. PERCEPTIONS OF SURGEONS, PARENTS, AND CHILDREN: WHAT ARE THE TRUE INDICATIONS FOR SURGICAL REVISION?

Authors: **Kavitha Ranganathan**, Jeanne Kochkodan, Michaela Baker, Niki Matusko, Christian Vercler, Steve Kasten, Steven Buchman, Jennifer Waljee

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246. PSYCHOSOCIAL RISK ASSESSMENT IN CRANIOFACIAL POPULATIONS: PSYCHOMETRIC PROPERTIES OF THE PSYCHOSOCIAL ASSESSMENT TOOL-CRANIOFACIAL VERSION

Authors: **Canice Crerand**, Hillary Kapa, Jennifer Litteral, Gregory Pearson, Katherine Eastman, Richard Kirschner

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247. DEVELOPMENT OF SOCIAL COMMUNICATION SKILLS IN CHILDREN WITH AND WITHOUT REPAIRED CLEFT PALATE

Authors: **Marziye Eshghi**, Daniela Vivaldi, Jacqueline Dorry, Elizabeth Crais, Linda D. Vallino,

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

248. INCIDENCE OF METOPIC SUTURE ABNORMALITIES IN PATIENTS WITH POSITIONAL PLAGIOCEPHALY/BRACHYCEPHALY

Authors: Jacqueline Ross, **Leslie Shock**, Kristina Aldridge, Paige Kuhlmann, Arshad Muzaffar

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249. MINOR SUTURE FUSION IN SYNDROMIC CRANIOSYNOSTOSIS

Authors: **Christopher Runyan**, Wen Xu, Michael Alperovich, Jonathan Massie, Gina Paek, Benjamin Cohen, David Staffenberg, Roberto Flores, Jesse Taylor

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250. PERSONALIZED OPTIMAL PLANNING OF FRONTO-ORBITAL ADVANCEMENT SURGERY FOR THE CORRECTION OF METOPIC CRANIOSYNOSTOSIS FROM CT

Authors: **Antonio R. Porras**, Dzenan Zukic, Andinet Equobahrie, Robert Keating, Gary Rogers, Marius George Linguraru

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251. VISUAL EVOKED POTENTIAL (VEP) TESTING AND CRANIOFACIAL SYNOSTOSIS (CS): RESULTS IN 67 PATIENTS

Authors: **Maria Teresa Nunez-Villaveiran Baselga**, Ananth Murthy, Richard Hertle, William Lawhon, Nancy Hanna, Niyant Patel

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

252. UNDERSTANDING ORBITAL DYSMORPHOLOGY AND STRABISMUS IN UNICORONAL CRANIOSYNOSTOSIS PATIENTS UNDERGOING FRONTAL ORBITAL ADVANCEMENT AND REMODELING

Authors: **Jason Yu**, Cassandra Ligh, Ari Wes, Jordan Swanson, Jesse Taylor,

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253. ANALYSIS OF ACUTE ADVERSE POSTOPERATIVE OUTCOMES AFTER CRANIOSYNOSTOSIS SURGERY: IDENTIFYING PREDICTORS OF COMPLICATIONS

Authors: **Shirley Dong**, Jonathan Lee, Joseph Losee, Jesse Goldstein

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254. EVALUATION OF ENDOSCOPIC SUTURE RELEASE OF BILATERAL CORONAL CRANIOSYNOSTOSIS AT TWO INSTITUTIONS

Authors: **Conor Williams**, Matthew Smyth, David Segar, Gary Skolnick, Sybill Naidoo, Mark Proctor, Kamlesh Patel

***Disclosures:** The presenters have disclosed no relevant financial or nonfinancial relationships.*

255. CREATING AN ANNUAL REPORT FOR YOUR CLEFT AND CRANIOFACIAL PROGRAM

Authors: **Melisande McCheyne**

***Disclosures:** The presenter has disclosed no relevant financial or nonfinancial relationships.*

256. TIME TRACKING FOR CLEFT AND CRANIOFACIAL TEAM

Authors: **Cheryl Grellner**, Sybill Naidoo, Gary Skolnick, Kamlesh Patel

***Disclosures:** Cheryl Grellner has disclosed no relevant financial relationships and the following nonfinancial relationship: I am an employee of St. Louis Children's Hospital and receive a salary.*

257. ETHICAL CONSIDERATIONS IN MEDICAL RECORD DOCUMENTATION FOR MULTIDISCIPLINARY CRANIOFACIAL CARE

Authors: **Karla Haynes**, Laura Garcia, Alexis Johns

***Disclosures:** The presenters have disclosed no relevant financial or nonfinancial relationships.*

258. HEALTH POLICY AND ECONOMICS: HOW THEY IMPACT THE CRANIOFACIAL POPULATION

Authors: **Patricia Bender**

***Disclosures:** The presenter has disclosed no relevant financial or nonfinancial relationships.*

259. ENHANCING NUTRITION AFTER ORTHOGNATHIC SURGERY: AN INTERDISCIPLINARY APPROACH

Authors: **Noreen Clarke**, Artur Fahradyan, Jennifer Baird, Nicole Olsen-Garcia, Ana Cardenas, Alexis Johns, Stephen Yen, Jeffrey Hammoudeh, Mark Urata

***Disclosures:** The presenters have disclosed no relevant financial or nonfinancial relationships.*

260. DISTRACTION OSTEOGENESIS: IS THE PATIENT/FAMILY A GOOD CANDIDATE? HOW DO WE INDIVIDUALIZE THEIR PREPARATION AND MANAGEMENT?

Authors: **Patricia Chibbaro**

***Disclosures:** The presenter has disclosed no relevant financial or nonfinancial relationships.*

261. MANAGEMENT OF LARGE PALATAL FISTULAS: A MULTIDISCIPLINARY APPROACH

Authors: **Dana Johns, Elena Hopkins**

***Disclosures:** The presenters have disclosed no relevant financial or nonfinancial relationships.*

262. DEFINING THE MAIN CONTRIBUTORS TO THE DESIRE FOR CLEFT REVISION SURGERY

Authors: **Jeanne Kochkodan**, Kavitha Ranganathan, Michaela Baker, Niki Matusko, Christian Vercler, Steve Kasten, Steven Buchman, Jennifer Waljee

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263. WHAT IS THE COST OF “FREE” SURGERY IN THE MIDDLE EAST?

Authors: **Samar Sheriff**, Hassan Zawahrah, Lenisa Chang, Haithem Elhadi Babiker, Ashton Roach, Sonay Beyatli, Nataliya Biskup, John van Aalst

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264. EMBRACING LIFE PROJECT: BLENDING CLINICAL CLEFT EXPERTISE WITH EDUCATION AND RESEARCH IN THE MIDDLE EAST

Authors: **John van Aalst**, Saleem Zaru, Rushdi Amr, Hassan Zawahrah, Jafar Ayeshe, Wa'el Halaby, Mahmoud Abu Hatab, Nasr Jafar

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265. QUALITY OF LIFE AND OBJECTIVE MEASUREMENT OF FACIAL DIFFERENCES IN YOUTH WITH CL/P

Authors: Lillian Hamill, **Celia Heppner**, Angela Salemi Milanes

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266. ASSESSING ATTENTIONAL BIAS IN CHILDREN WITH SECONDARY CLEFT LIP DEFORMITIES: AN EYE-TRACKING INVESTIGATION

Authors: **Alexander Morzycki**, Alison Wong, Paul Hong, Michael Bezuhly

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

267. PRECEDEX™ DECREASES POSTOPERATIVE PAIN AND NARCOTIC USE IN CHILDREN UNDERGOING ALVEOLAR BONE GRAFT SURGERY

Authors: **Mariela Lopez**, Judith Linton, Derrick Zech, Steven Blackwell

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268. FACTORS CONTRIBUTING TO SLEEP DISORDERED BREATHING AND OBSTRUCTIVE SLEEP APNEA IN CHILDREN WITH OROFACIAL CLEFTS

Authors: **Jeremy Powers**, Scott Hirsch, Ruth Trivelpiece, Rajanya Petersson, Jennifer Rhodes

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269. EXPANDING THE PHENOTYPIC SPECTRUM OF TP63-ASSOCIATED DISORDERS INCLUDING FIRST SET OF AFFECTED MONOZYGOTIC TWINS

Authors: **Brittany Cowfer**, Elizabeth Bhoj, Wen-Hann Tan, Zornitza Stark, Renata Pellegrino da Silva, Hakon Hakonarson, Tara Wenger

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270. FACIAL PHENOTYPIC FEATURES AND FINGERPRINTS ON PARENTS OF CHILDREN WITH NON-SYNDROMIC CLEFT LIP AND/OR PALATE AS A RISK FACTOR FOR THEIR OFFSPRING

Authors: Sandra Rosenfeld, Andrea Barreto, Gabriela Herrera, Liliana Otero, **Maria Martinez**, Nancy Rojas

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271. RESOLVING A GENETIC ODYSSEY OF MANDIBULOFACIAL DYSOSTOSIS USING NEXT-GENERATION SEQUENCING

Authors: **Shankar Rengasamy Venugopalan**, Emily Farrow, Michael Lypka

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272. TRANSCRIPTOME ATLAS OF THE CRANIOFACIAL SUTURES

Authors: Greg Holmes, Harm van Bakel, Michael J. Donovan, S. Steve Potter, **Ethylin Jabs**

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273. THE IMPACT OF BREAST MILK ON TYMPANOSTOMY TUBE SEQUELAE IN CHILDREN WITH CLEFT PALATE

Authors: **Amber Shaffer**, Matthew Ford, Sukgi Choi, Noel Jabbour

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274. SLEEP PATTERNS AND PROBLEMS AMONG CHILDREN WITH 22Q11.2 DELETION SYNDROME

Authors: **Jill Arganbright**, Dave Ingram

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275. WHICH VELAR AND MUSCLE PARAMETERS MOST INFLUENCE CLOSURE BIOMECHANICS IN 22Q11.2DS?

Authors: **Catherine Pelland**, Lakshmi Kollara, Jamie Perry, Silvia Blemker

Disclosures: *The presenters have disclosed no relevant financial or nonfinancial relationships.*

276. OBJECTIVE AUTOMATED SHAPE-BASED ANALYSIS FOR GRADING THE UNILATERAL CLEFT LIP NASAL DEFORMITY ON 3D SURFACE IMAGES

Authors: **Ezgi Mercan**, Linda Shapiro, Stephen Beals, Alexander Allori, Thomas Samson, Thomas Sitzman, David Fisher, Damir Matic, Raymond Tse

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277. THE ACCURACY OF TRANSFERRING 3-DIMENSIONAL SIMULATION OF TWO-JAW ORTHOGNATHIC SURGERY FOR CORRECTING CLEFT MIDFACE HYPOPLASIA WITH CLASS III MALOCCLUSION BY USING SURGICAL GUIDING SYSTEM

Authors: **Jui Pin Lai**, Yu-Jeng Chang, Te-Ju Wu

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278. NOVEL COMPUTER VISION ANALYSIS OF NASAL SHAPE IN CHILDREN WITH UNILATERAL CLEFT LIP

Authors: **Ezgi Mercan**, Linda Shapiro, Clinton Morrison, Raymond Tse

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279. AN INNOVATIVE, NON-SEDATED MRI PROTOCOL TO ASSESS VELOPHARYNGEAL VARIATIONS IN CHILDREN WITH 22Q11.2 DELETION SYNDROME

Authors: **Lakshmi Kollara**, Adriane Baylis, Richard Kirschner, D. Gregory Bates, Mark Smith, Xiangming Fang, Jamie Perry

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280. COMPARING THE CONSISTENCY OF MEASURES OF CRANIAL SHAPE OBTAINED FROM LASER SURFACE SCANS TO COMPUTED TOMOGRAPHY

Authors: Angela Hulsey, Kristina Aldridge, **Leslie Shock**, Arshad Muzaffar

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281. MATERNAL FOLIC ACID INTAKE AND ORAL CLEFTS IN PUERTO RICAN CHILDREN

Authors: **Carmen Buxo**, Javier Rodríguez, Mairim Soto, Ricardo Ledesma, Lydia López Del Valle, Maria Salcedo, Natalio Debs

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282. ENTERAL FEEDING TUBE PLACEMENT IN PATIENTS BORN WITH OROFACIAL CLEFTS

Authors: **Thanapoom Boonipat**, Nicholas Adams, Robert Mann, John Polley, John Girotto

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283. EXCEPTIONAL SERVICES: SPECIAL EDUCATION USE IN ELEMENTARY SCHOOL CHILDREN WITH A NONSYNDROMIC OROFACIAL CLEFT

Authors: **Stephanie Watkins**, Ron Strauss, Robert Meyer

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284. DO SOCIODEMOGRAPHICS INFLUENCE CLEFT LIP AND PALATE TREATMENT? ONE HOSPITAL'S EXPERIENCE WITH NASOALVEOLAR MOLDING

Authors: **Isabella Guajardo**, Emily Bobyock, Praneeth Meka, Kayley Slicer, Kristen Lowe, Leanne Magee, Oksana Jackson

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285. ASSESSING BURDEN OF CARE IN THE CLEFT LIP AND PALATE PATIENT: FACTORS INFLUENCING SUCCESS AND FAILURE OF NASOALVEOLAR MOLDING

Authors: **Riley Dean**, D'Arcy Wainwright, Irene Doringo, John Teichgraeber, Matthew Greives

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286. CURRENT CONCEPTS IN TREATMENT PLANNING OF ADVANCED CRANIOFACIAL ANOMALIES

Authors: **Stephen Baker, Craig Birgfeld, Jesse Taylor, Raymond Harshbarger**

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287. VIRTUAL PLANNING IN CRANIOMAXILLOFACIAL SURGERY, INCLUDING LIVE PLANNING SESSIONS

Authors: **Sean Edwards, John Caccamese, Gerhard Mundinger**

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288. EYE TRACKING TECHNOLOGY: A WINDOW INTO HOW WE PERCEIVE CRANIOFACIAL DIFFERENCES USING ANALYSIS OF EYE MOVEMENT

Authors: **Christopher Warne**, Neil Stewart, Rami Hallac, Maleeh Effendi, Tochi Ajiwe, Pang-Yun Chou, Alex Kane, Christopher Derderian, James Seaward

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289. INCIDENCE AND MANAGEMENT OF CONGENITAL HEART DISEASE IN PATIENTS WITH CLEFTS: COMPREHENSIVE REVIEW OF A TERTIARY CHILDREN'S HOSPITAL

Authors: Naikhoba Munabi, Beina Azadgoli, Jordan Swanson, Artur Fahradyan, Allyn Auslander, Pedro Sanchez, Sally L Davidson Ward, William Magee

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290. A THREE-DIMENSIONAL SUBJECT-SPECIFIC COMPUTATIONAL MODEL OF VPD REPRESENTS VELAR MOVEMENTS AND LVP FUNCTION DURING HYPERNASAL SPEECH

Authors: **Catherine Pelland**, Thanh Tran, Lakshmi Kollara, Kant Lin, Jamie Perry, Silvia Blemker

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291. CLINICAL OUTCOMES OF ANTERIOR ILIAC CREST BONE GRAFTING IN 207 PATIENTS WITH ALVEOLAR CLEFTS, A FIVE YEAR PERSPECTIVE

Authors: **Peter Waite**, Paul Lewis, Tamir Anver, Lida Mirzai, Kathlyn Powell

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